CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-03-01** **Date: 05-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.32	–
2	Finess by Air permeablity method (m^2/kg, Min)	265.9	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-03-01** **Date: 01-09-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-08-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(W)

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-03-01** **Date: 06-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	265	265	1.8	98.2	90-100
3	20 mm	5866	6131	40.9	59.1	30-70
4	10 mm	4356	10487	69.9	30.1	10-35
5	4.75 mm	4076	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

Assistant Executive Engr.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

AE(W)

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-03-01** **Date: 06-08-17**

Sample ID No : 2017-08-03-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.59**	_
5	Bulk Density(Compacted) (Kg/l)	**1.62**	_
6	Water Absorption(%)	**0.25**	_

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bengalore.

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AE(WT)

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-03-01** **Date: 06-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	265	265	5.3	94.7	90-100
3	10 mm	2753	3018	60.4	39.6	25-55
4	4.75 mm	1655	4673	93.5	6.5	0-10
5	Pan	327	5000	100	0	–

Asst Executive Engineer, Kodigehalli Sub Division, Nelahanka Zone, B.B.M.P, Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

AE(WS)

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-03-01** **Date: 06-08-17**

Sample ID No : 2017-08-03-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.8**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**23.2**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.7**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engr.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

A.E.E

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-03-01** **Date: 06-08-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.

Agency : Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.

Customer's Reference : BBMP/EE/BTP/WO/249/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-08-17

Sample ID No : 2017-08-03-01/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-08-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	155	241	24.1	75.9	60-95	75-100	85-100	95-100
4	1.18 mm	168	409	40.9	59.1	30-70	55-90	75-100	90-100
5	600 micron	189	598	59.8	40.2	15-34	35-59	60-79	80-100
6	300 micron	175	773	77.3	22.7	5-20	8-30	12-40	15-50
7	150 micron	142	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-03-01** **Date: 06-08-17**

Sample ID No : 2017-08-03-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.9	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AE(Tech)

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-18-01** **Date: 21/08/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.

Agency : Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.

Customer's Reference : BBMP/EE/BTP/WO/249/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-17

Sample ID No : 2017-08-18-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2017	21/08/2017	150.22 X 150.54 X 150.55	22614	8.311	305.3	13.5	13.4
2	PCC	M15	14/08/2017	21/08/2017	150.22 X 150.54 X 150.55	22614	8.291	296.2	13.1	
3	PCC	M15	14/08/2017	21/08/2017	150.22 X 150.54 X 150.55	22614	8.273	309.8	13.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(WT)

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-18-01** **Date: 11/09/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.

Agency : Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.

Customer's Reference : BBMP/EE/BTP/WO/249/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-17

Sample ID No : 2017-08-18-01-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2017	11/09/2017	150.22 X 150.54 X 150.55	22614	8.311	386.7	17.1	17.3
2	PCC	M15	14/08/2017	11/09/2017	150.22 X 150.54 X 150.55	22614	8.291	391.2	17.3	
3	PCC	M15	14/08/2017	11/09/2017	150.22 X 150.54 X 150.55	22614	8.273	398.0	17.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore. M.D
AE(HT)

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-26-03** **Date: 25/08/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.

Agency : Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.

Customer's Reference : BBMP/EE/BTP/WO/249/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-17

Sample ID No : 2017-08-26-03-01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2017	25/08/2017	150.22 X 150.44 X 150.55	22599	8.211	370.6	16.4	16.6
2	M20 Concrete	M20	18/08/2017	25/08/2017	150.32 X 150.34 X 150.35	22599	8.245	381.9	16.9	
3	M20 Concrete	M20	18/08/2017	25/08/2017	150.22 X 150.34 X 150.35	22584	8.256	374.9	16.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(WZ)

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-26-03** **Date: 15/09/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.

Agency : Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.

Customer's Reference : BBMP/EE/BTP/WO/249/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-17

Sample ID No : 2017-08-26-03-02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2017	15/09/2017	150.22 X 150.44 X 150.55	22599	8.211	488.1	21.6	22.0
2	M20 Concrete	M20	18/08/2017	15/09/2017	150.32 X 150.34 X 150.35	22599	8.245	494.9	21.9	
3	M20 Concrete	M20	18/08/2017	15/09/2017	150.22 X 150.34 X 150.35	22584	8.256	510.4	22.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore - N.D

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-08-16-06** **Date: 17-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-17
Sample ID No	:	2017-08-16-06-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	16-08-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(WZ)

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-08-03-01** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01/04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-08-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.
AE(WZ)

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-08-03-01** **Date: 07-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01-05(a)
Sample Type /Size	:	Precast Cover Slab 100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	03/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.216	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.222	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.218	4476	81.5	18.2	16.9	21.2

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer, Kodigehalli Sub Division, B.M.P., Bangalore. A.E.E.(W)

CIVIL Pro ★ BANGALORE ★ Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-08-03-01** **Date: 07-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer's Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-17
Sample ID No	:	2017-08-03-01-05(b)
Sample Type /Size	:	Precast Cover Slab 200mm Thick
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	03/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.51	200.48	2.216	7933	128.9	16.2	16.2	20.3
2	Cover Slab-2	100.49	200.42	2.222	7930	129.3	16.3	16.3	20.4
3	Cover Slab-3	100.50	200.47	2.218	7931	131.5	16.6	16.6	20.7

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-08-14-02** **Date: 16-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	14-08-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	317	317	2.9	97.1	95-100
22.4	2252	2569	23.4	76.6	60-80
11.2	2171	4740	43.1	56.9	40-60
4.75	2249	6989	63.5	36.5	25-40
2.36	1611	8600	78.2	21.8	15-30
0.6	634	9234	83.9	16.1	8-22
0.075	1323	10557	96.0	4.0	0-5

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(WJ)

CIVIL PRO Sig Date BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-08-14-02** **Date: 16-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout,
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-08-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.70	72.90
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	226.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.5
5	Aggregate impact value	(B/A)*100	24.6	24.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.4	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore. A.E.E.(W)

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-08-14-02** **Date: 16-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07,
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-08-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.9%	
Combined Flakiness and Elongation Index for WMM	25.2%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-08-17-02** **Date: 19-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-08-17
Sample ID No	:	2017-08-17-02/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	17-08-17
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	419	419	8.38	91.62	90-100
4.75	2476	2895	57.90	42.10	35-51
2.36	827	3722	74.44	25.56	24-39
1.18	515	4237	84.74	15.26	15-30
0.3	309	4546	90.92	9.08	9-19
0.075	189	4735	94.70	5.30	3-8
PAN	265	5000	100.00	0.00	0

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka, B.B.M.P.,
Bangalore.
AE(W)

CIVIL Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-08-17-02** **Date: 20-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-08-17
Sample ID No	:	2017-08-17-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	17-08-17

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.3	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.6		
Strength	Aggregate Impact Value	22.7	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.57	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.23	Maximum 2%	IS:2386 Part III

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

AE (Z7)

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-08-17-02** **Date: 20-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07,
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-08-17
Sample ID No	:	2017-08-17-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	17-08-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	96.5	3.5	97.3	Minimum Retained Coating 95%
2	97.5	2.5		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division, B.B.M.P.
Yelahanka Zone, Bangalore.

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-08-17-02** **Date: 20-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	17-08-17
Sample ID No	:	2017-08-17-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	17-08-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.11	8.2KN(min)
2	Marshal flow at 60°C, mm	3.22	3.17	2-4
3	Percent air Voids	4.37	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.72	13.81	13-15
5	Percent Voids filled with Bitumen(VFB %)	69.6	71.2	65-75
6	Density, g/cc	2.27	2.25	–

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(ur)

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-10-23-02**	**Date: 25-10-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Drains and Roads in D.Pillappa Layout, Amruthalli and Surroundings Byatarayanpura in Ward No.07, Byatarayanpura.	
Agency	:	Sri.Narasimharaju K, No:175, 5th Cross, Maruthinagara Bhadrappa Layout, Nagashettyhalli, Bangalore-560 094.	
Customer Reference	:	BBMP/EE/BTP/WO/249/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-10-17	
Sample ID No	:	2017-10-23-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	23-10-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.78	4.79
4	Average percentage	%	4.8	

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B...
Bangalore.

AE(Au)

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Lab ID : **CP-RW-2017-10-23-02** **Date: 25-10-17**

Sample ID No : **2017-10-23-02/01**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	26	26	5.44	94.6	90-100
4.75	237	263	55.02	45.0	35-51
2.36	29	292	61.09	38.9	24-39
1.18	49	341	71.34	28.7	15-30
0.3	71	412	86.19	13.8	9-19
0.075	34	446	93.31	6.7	3-8
PAN	32	478	100.00	0.0	0

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	24	24	5.03	95.0	90-100
4.75	239	263	55.14	44.9	35-51
2.36	32	295	61.84	38.2	24-39
1.18	59	354	74.21	25.8	15-30
0.3	53	407	85.32	14.7	9-19
0.075	39	446	93.50	6.5	3-8
PAN	31	477	100.00	0.0	0

Note:-

The results pertain to the samples received and tested.
All information furnished by the Customer/ Representative.
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(WZ)

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com